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Fig. 2

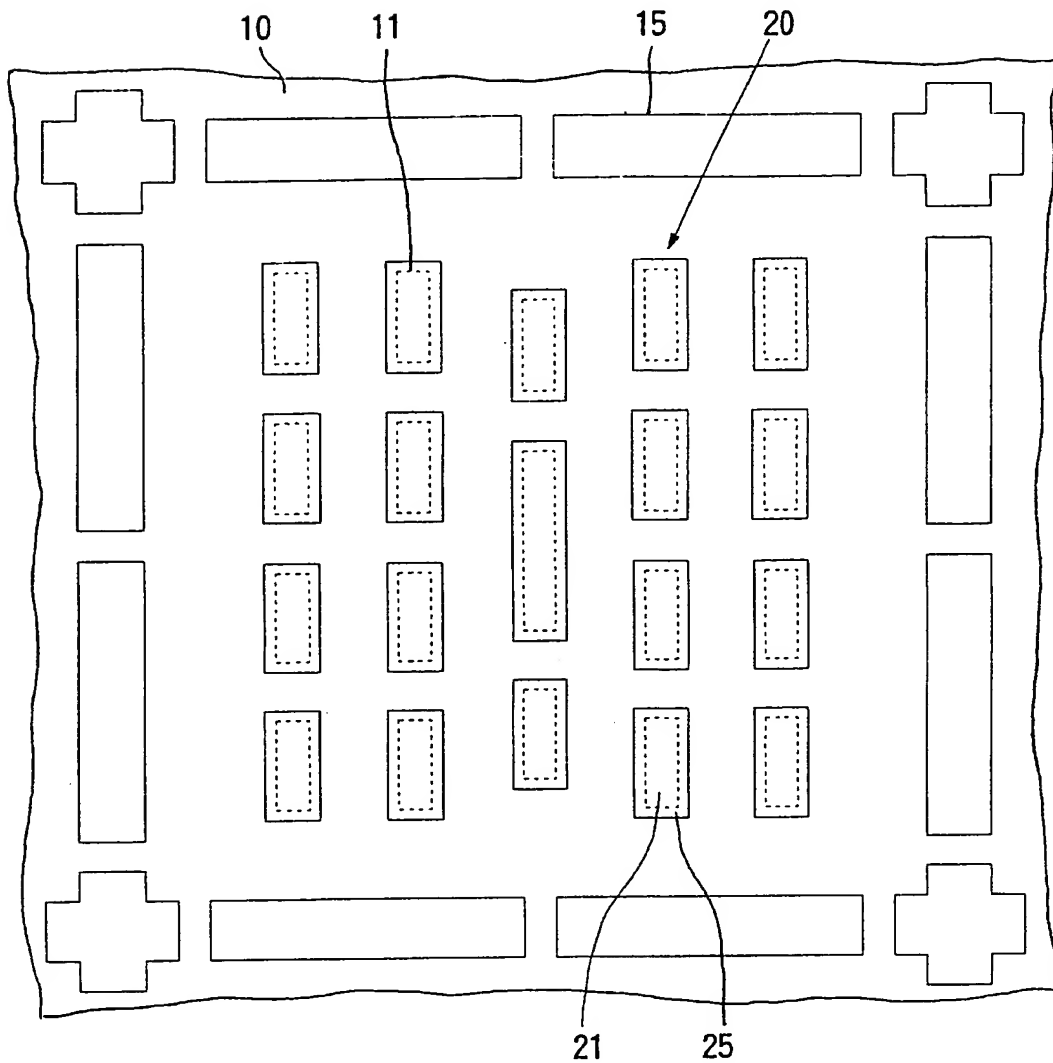
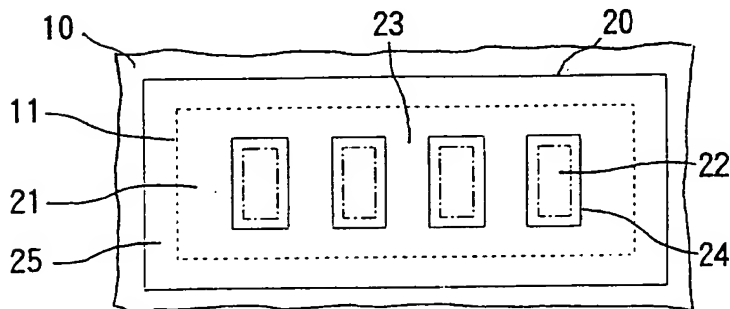


Fig. 3



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Fig. 4

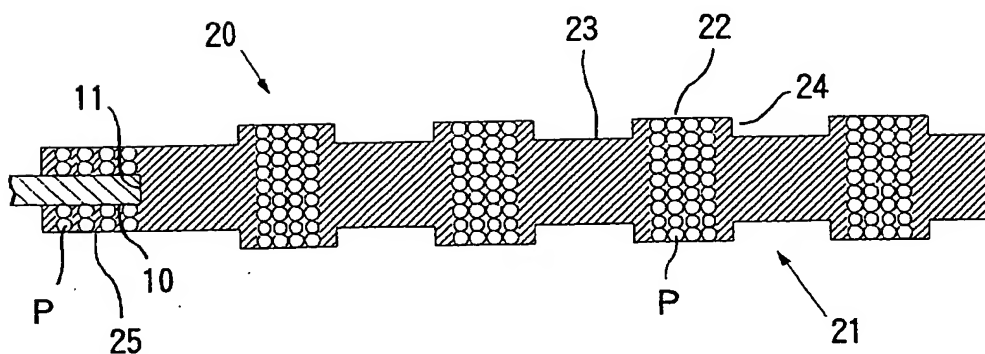


Fig. 5

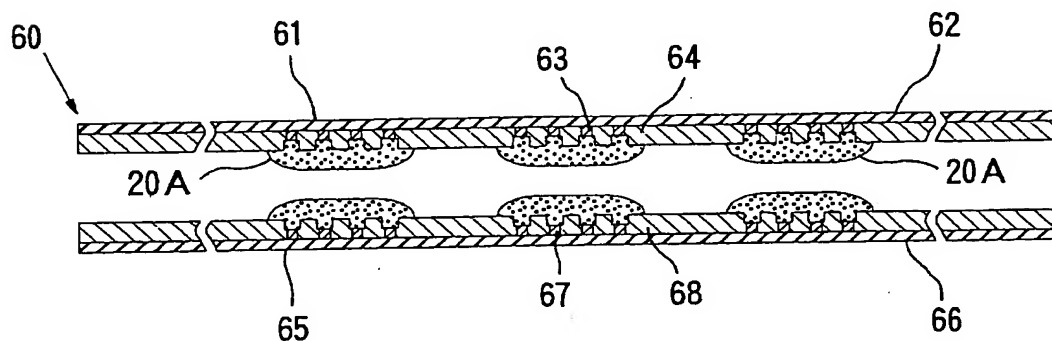


Fig. 6

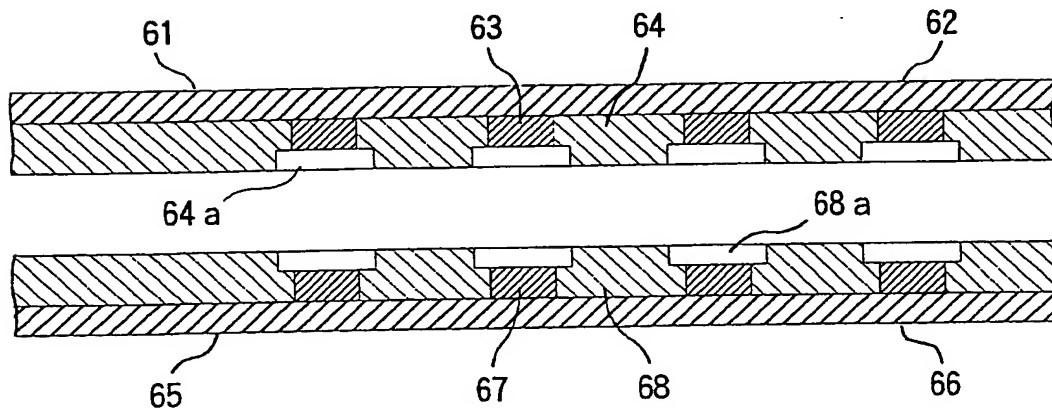


Fig. 7

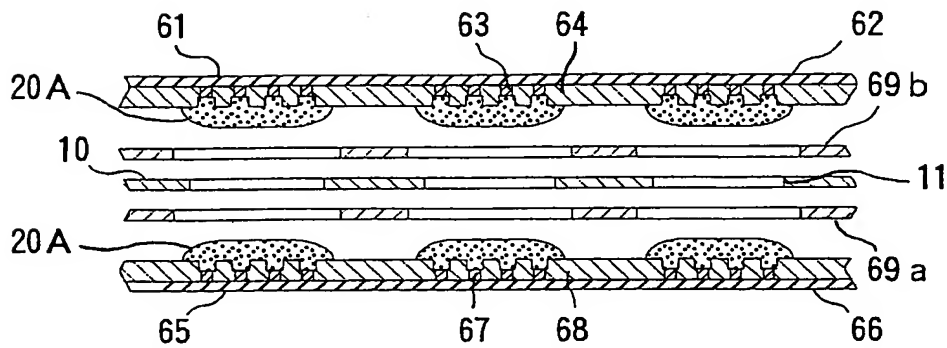


Fig. 8

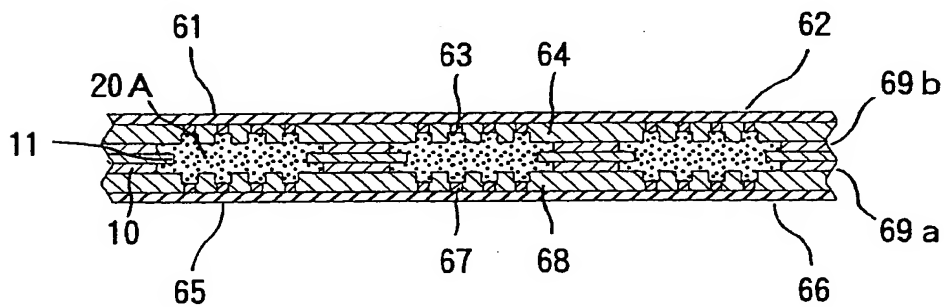
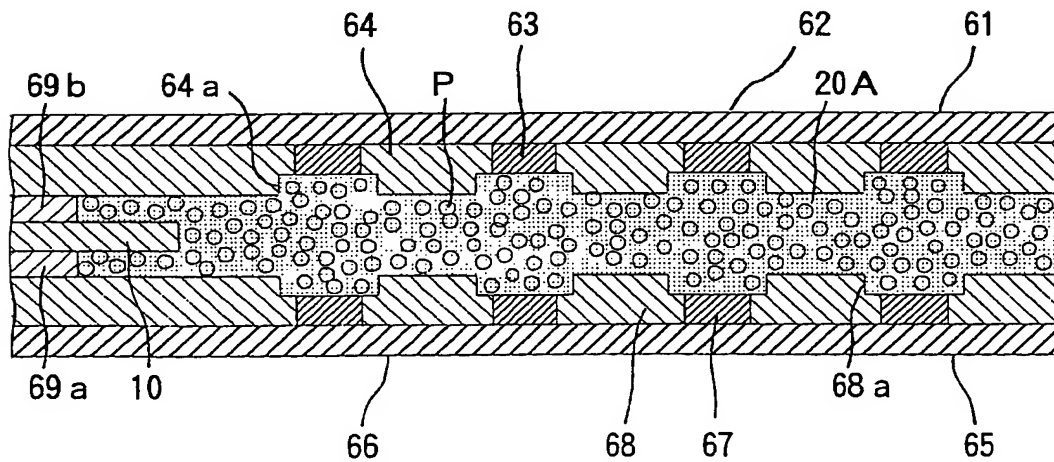


Fig. 9



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Fig. 1 0

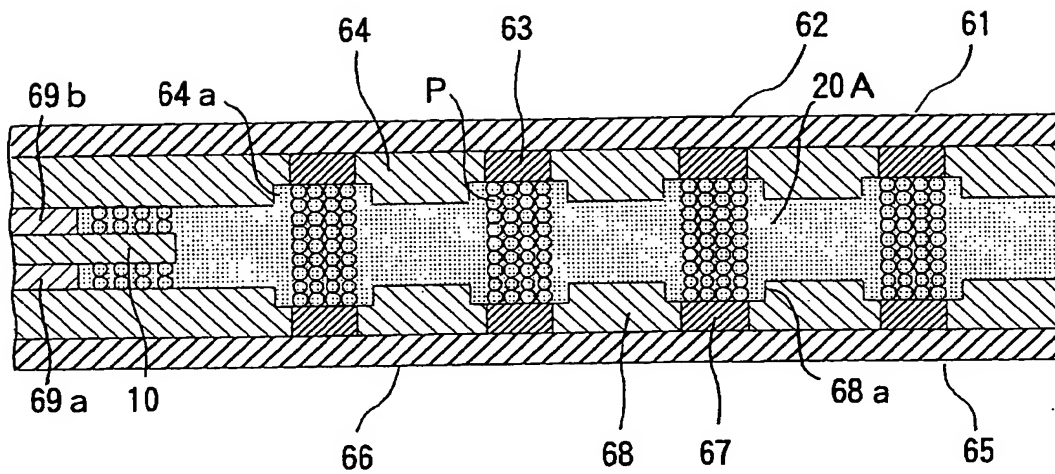
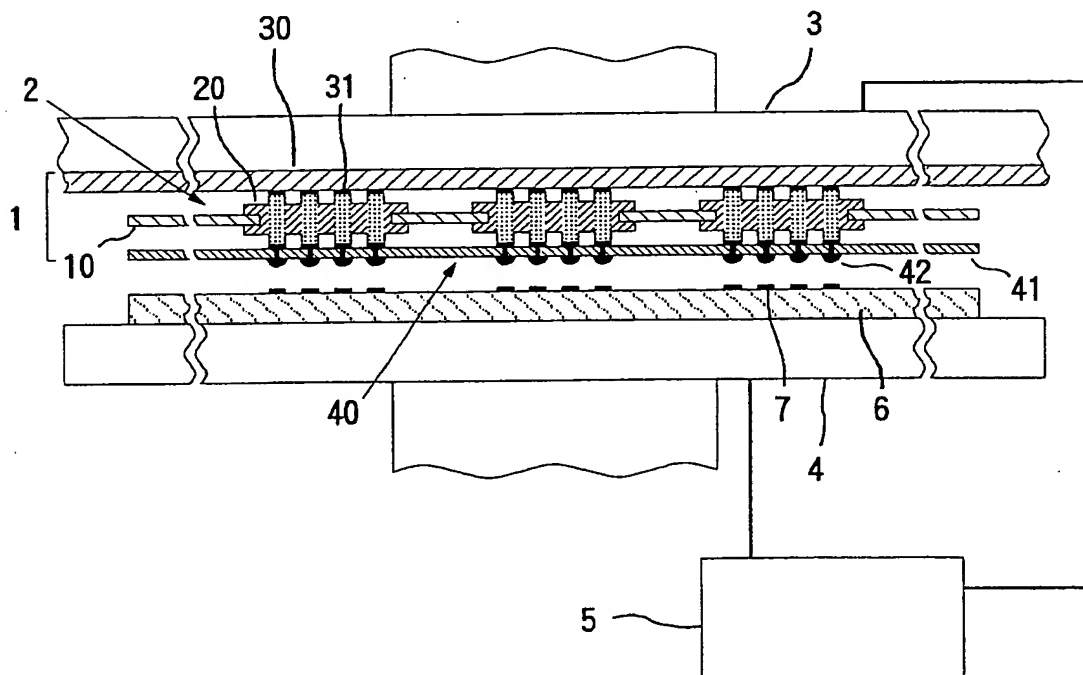


Fig. 1 1



This diagram shows a cross-sectional view of a piezoelectric actuator assembly. A piezoelectric actuator (1) is sandwiched between a top electrode (2) and a bottom electrode (3). The actuator is composed of alternating layers of piezoelectric material (10) and conductive layers (15). The top electrode (2) is connected to a terminal (55) and a terminal (51). The bottom electrode (3) is connected to a terminal (50) and a terminal (5). The piezoelectric actuator (1) is mounted on a substrate (40) which is supported by a base (41). The base (41) is connected to a terminal (42) and a terminal (7). The terminal (7) is connected to a terminal (6) and a terminal (50). The terminal (50) is connected to a terminal (5).

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Fig. 1 4

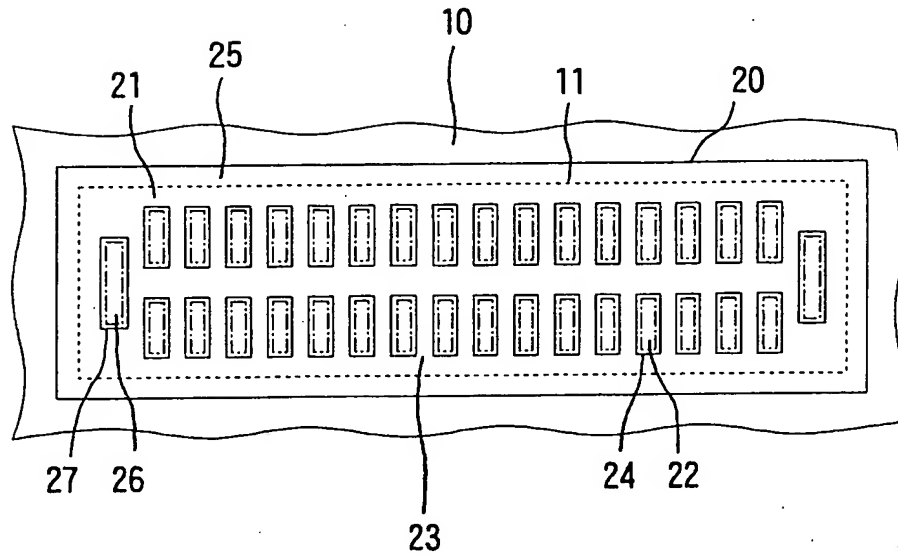
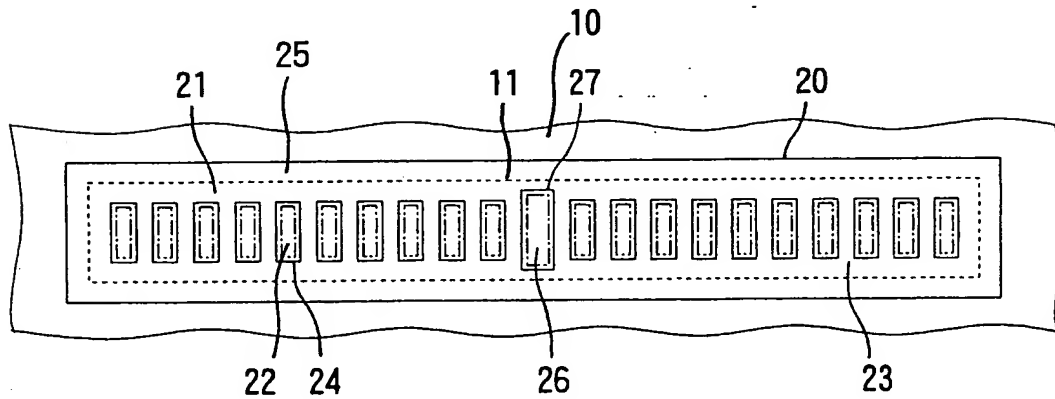
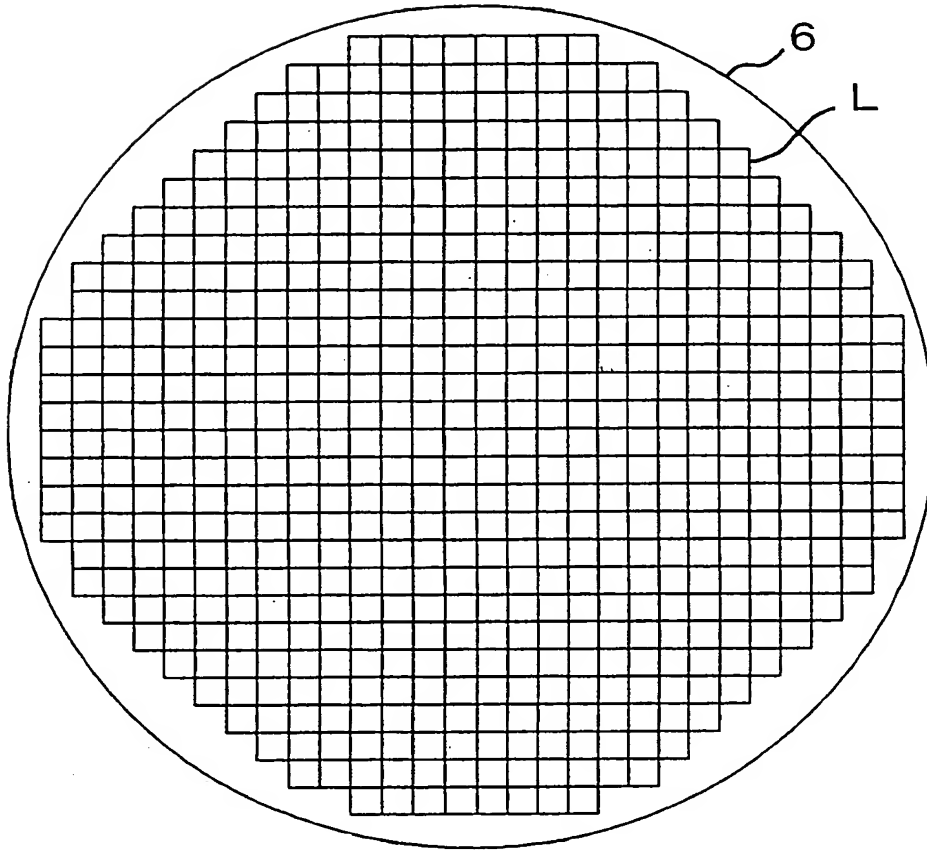


Fig. 1 5



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Fig. 1 6



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Fig. 1 7

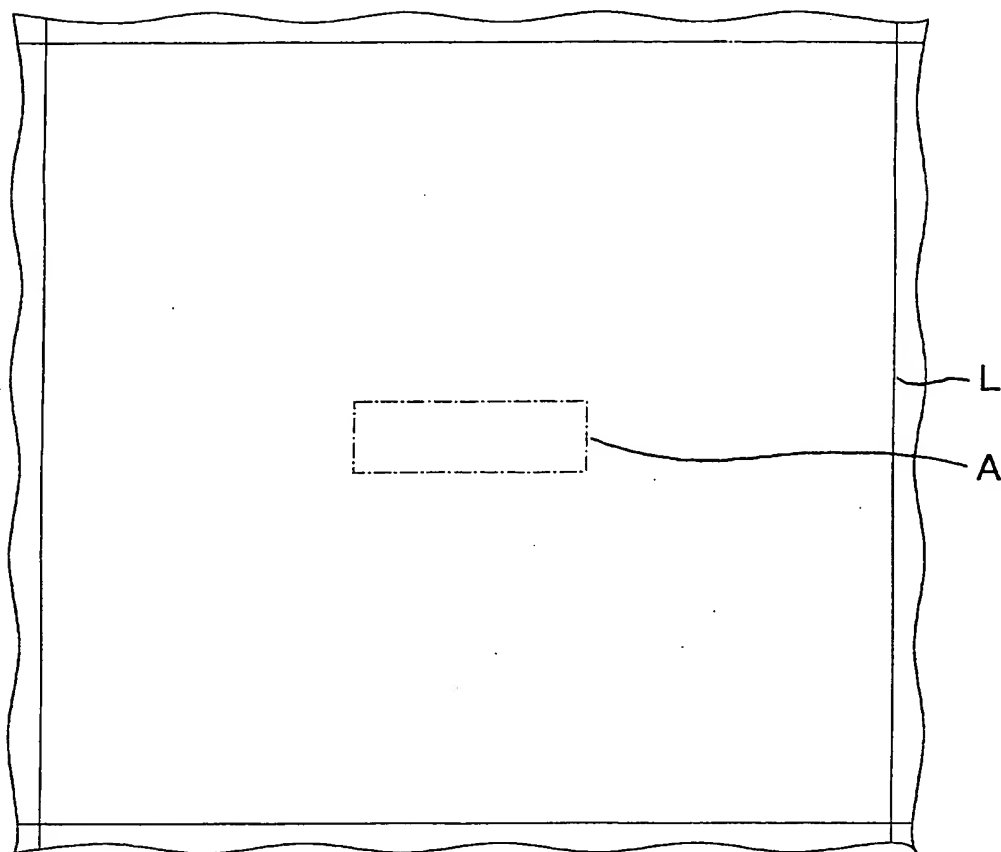
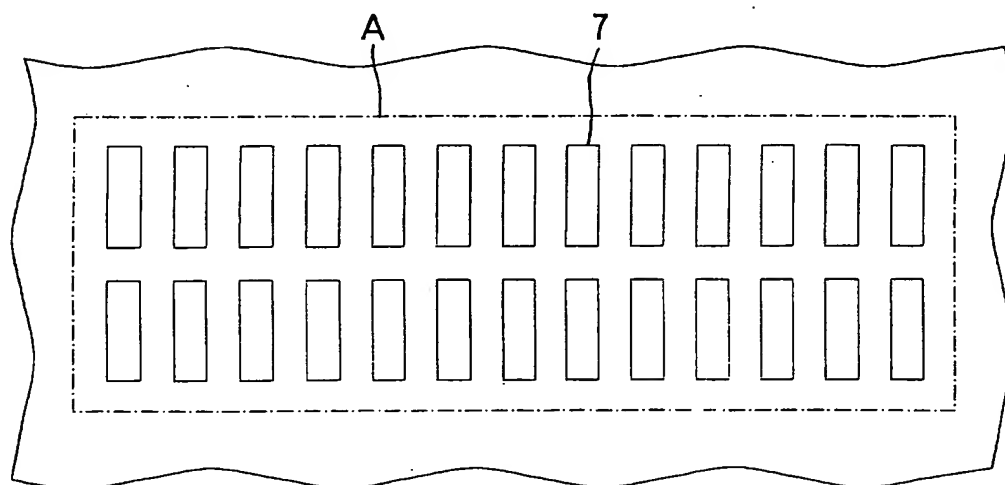
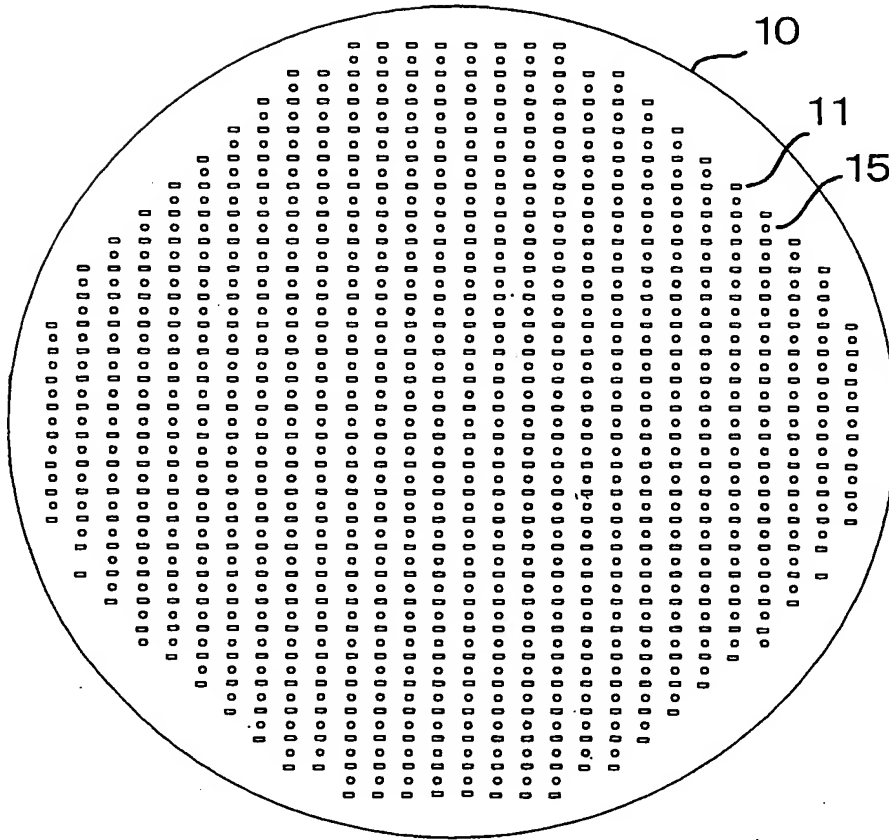


Fig. 1 8



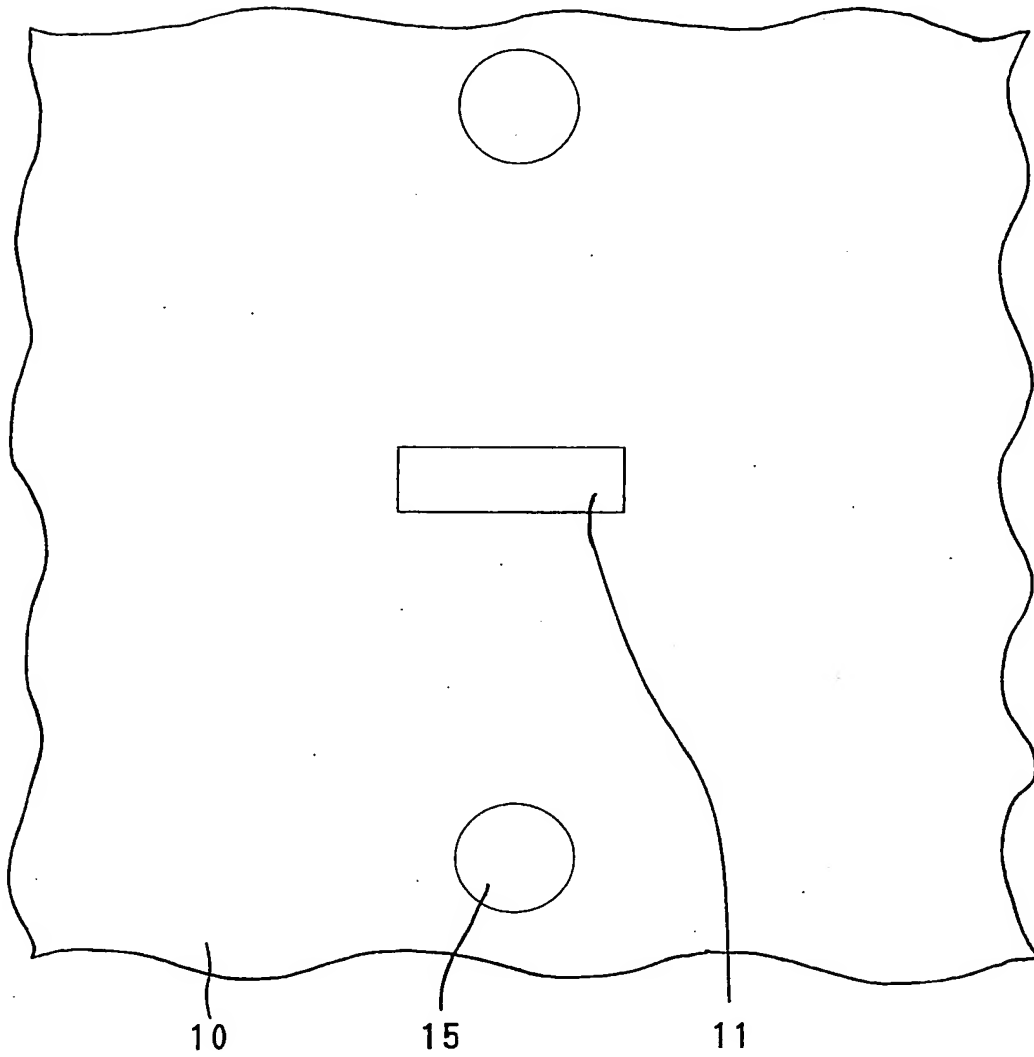
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Fig. 1 9



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Fig. 20



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Fig. 2 1

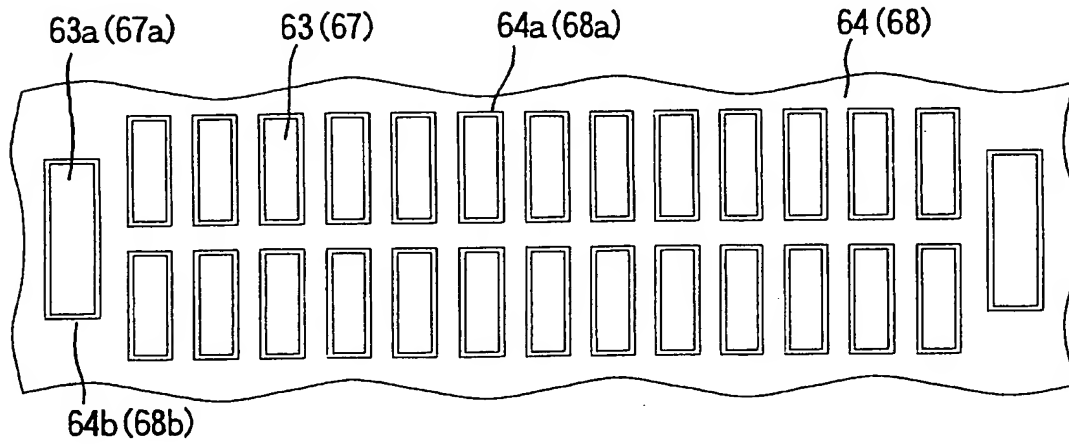
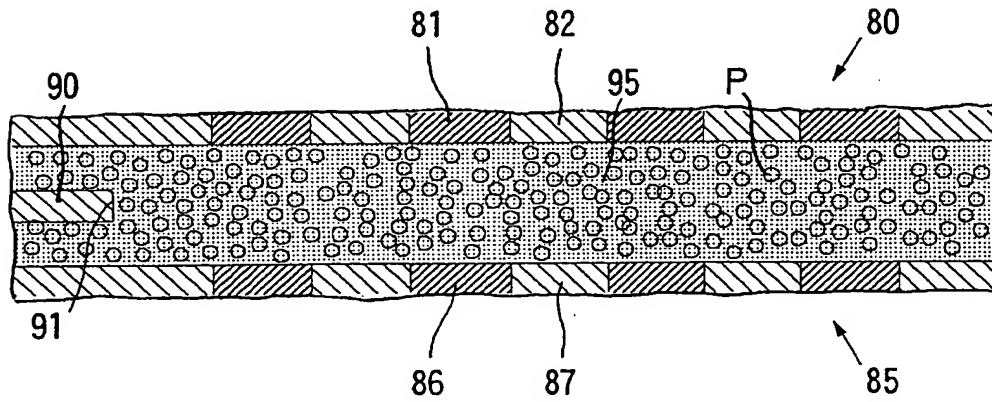


Fig. 2 2



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